

Melanoma of the Skin (Invasive)  
Long-Term Trends in U.S. Mortality<sup>c</sup> Using the Joinpoint Regression Program  
By Both Sexes, All Races (includes Hispanic), All Ages  
1975-2018 With up to Five Joinpoints

Race/ Ethnicity	Model	JP Trend 1		JP Trend 2		JP Trend 3		JP Trend 4		JP Trend 5		JP Trend 6		AAPC		Comparability Ratio Estimate
		Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	2009-18	2014-18	
All Races	Jump <sup>^</sup>	1975-88	1.6*	1988-13	0.2*	2013-16	-7.0*	2016-18	-3.0					-3.0*	-5.1*	0.9645 <sup>&amp;</sup>
All Races	Comparability Ratio	1975-88	1.6*	1988-13	0.2*	2013-18	-5.9*							-3.3*	-5.9*	0.9677 <sup>&amp;</sup>
All Races	Standard Joinpoint	1975-89	1.5*	1989-13	0.0	2013-18	-5.7*							-3.2*	-5.7*	
White	Jump <sup>^</sup>	1975-88	1.7*	1988-13	0.3*	2013-18	-5.6*							-3.0*	-5.6*	0.9691 <sup>&amp;</sup>
White	Comparability Ratio	1975-88	1.7*	1988-13	0.3*	2013-18	-5.6*							-3.0*	-5.6*	0.9677 <sup>&amp;</sup>
White	Standard Joinpoint	1975-88	1.8*	1988-13	0.2*	2013-18	-5.4*							-3.0*	-5.4*	
Black	Jump	1975-10	-0.3*	2010-18	-4.1*									-3.7*	-4.1*	0.9041
Black	Comparability Ratio <sup>^</sup>	1975-10	-0.6*	2010-18	-4.1*									-3.7*	-4.1*	0.9677 <sup>&amp;</sup>
Black	Standard Joinpoint	1975-10	-0.7*	2010-18	-4.1*									-3.7*	-4.1*	

<sup>^</sup>Indicates the final selected model.

Joinpoint Regression Program Version 4.9, March 2021, National Cancer Institute. (<https://surveillance.cancer.gov/joinpoint/>).  
The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

<sup>c</sup> Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

<sup>d</sup> The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

\* The APC/AAPC is significantly different from zero (p<.05).

- Joinpoint regression line analysis could not be performed on data series.

<sup>&</sup> Significant at level 0.05 for test of Comparability Ratio = 1.